Extron® Electronics

INTERFACING, SWITCHING AND DISTRIBUTION

SW 6 SV A MX– S-VIDEO & STEREO AUDIO SWITCHER

Six input, dual buffered output

Compatible with NTSC, PAL, and SECAM

Compatible with balanced or unbalanced stereo audio

30 MHz (±0.5dB) video bandwidth

20 Hz to 20 kHz (±0.05dB) audio frequency response

Vertical interval switching

RS-232 and contract remote control

Internal power supply

Rack-mountable metal enclosure

SERVICE 3 SUPPORT SOLUTIONS

DESCRIPTION

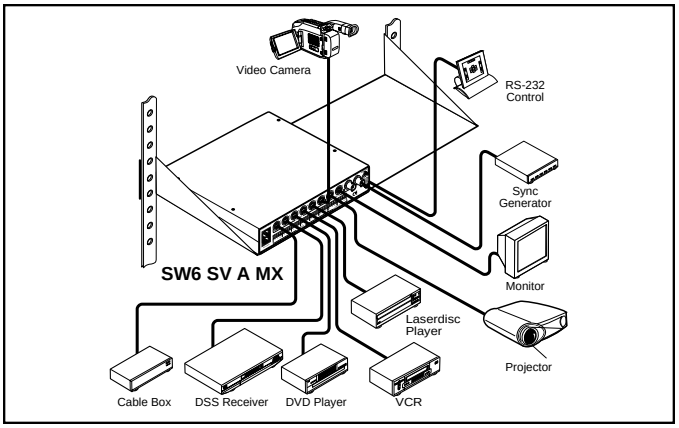
The Extron SW 6 SV A MX is a six input, dual output, S-video and stereo audio switcher. The SW 6 SV A MX offers the convenience of a combination S-video and stereo audio Switcher in one half rack width, 1U high, rack mountable enclosure. For signal routing in professional A/V systems, the SW 6 SV A MX switches up to six NTSC, PAL, or SECAM signals from video sources such as cameras, VCRs, or DVD players. Two independently buffered outputs allow for simultaneous display on a projector and a monitor. The SW 6 SV A MX accepts and outputs balanced or unbalanced stereo audio signals for maximum performance, flexibility, and ease of integration into an A/V system.

For switching control, the SW 6 SV A MX provides front panel, RS-232, or contact closure control. The SW 6 SV A MX AUTO features automatic switching control in addition to the other options. It detects and switches to an active input, so the user needs only to activate a video source in order to display its image—there is no need for front panel or remote input selection. Genlock capability is included to provide seamless vertical interval switching for genlock-compatible sources.

FEATURES

- Compatibility– Compatible with NTSC, PAL, and SECAM S-video sources. Also compatible with balanced or unbalanced two channel (stereo) audio.
- Outputs– Simultaneous, dual outputs are independently buffered.
- Genlock capability– Vertical interval switching enables seamless switching between multiple timed sources.
- Bandwidth– 30 MHz (±0.5dB) video bandwidth is provided.
- Audio– 20 Hz to 20 kHz (±0.05dB) audio frequency response. Audio gain/attenuation adjustment for each input.
- Control– Front panel, RS-232, or contact closure control. RS-232 control provided for use with Extron's Simple Instruction Set (SIS™), Extron's Windows-based control software, third-party control program, or optional Extron's IR 20 SYS 4/8/10/AV infrared remote control.
- Input connectors– Six 4-pin mini DIN connectors for S-video and six 3.5 mm captive screw connectors for balanced or unbalanced stereo audio.
- Output connectors– Two 4-pin mini DIN connectors for S-video and two 3.5 mm captive screw connectors for balanced or unbalanced stereo audio.
- Power supply– 100-240VAC, 50/60 Hz, auto-switchable, internal power supply is included.
- Enclosure– Housed in a half rack width, 1U high, metal enclosure.
- Auto-switching– Optional auto-switch version is available.

APPLICATION DIAGRAM



SPECIFICATIONS

Video	
Gain	Unity
Bandwidth	30 MHz (-3dB)
Differential phase error	0.01˚, 4.43 to 30 MHz
Differential gain error	0.03%, 4.43 to 30 MHz
Crosstalk	-70dB @ 3.58 MHz
Switching speed	160 nS (max.)
Video input	
Number/signal/connectors	6 S-video on 6 female 4-pin mini DIN connectors
Minimum/maximum level(s)	Analog 0.4V to 2V p-p with no offset at unity gain
Impedance	75 ohms (all inputs are terminated at 75 ohms)
Return loss	-41dB @ 5 MHz
Maximum DC offset	1.5V
External sync (genlock)	0.3V to 0.4V p-p
Video output	
Number/signal/connectors	2 individually buffered S-video on 2 female 4-pin mini DIN
Minimum/maximum level(s)	0.4V to 2.0V p-p
Impedance	75ohms
Return loss	-47dB @ 5 MHz
DC offset	±5mV maximum with input at 0 offset
Switching type	Vertical interval
Sync	
Genlock connectors	2 BNC female
Standards	NTSC, PAL, SECAM
Input level	0.3V to 5.0V p-p
Output level	TTL 4.0V to 5.0V p-p
Polarity	Positive or negative (follows input)
Audio	
Gain	Unbalanced -15dB, balanced +9dB
Frequency response	20 Hz to 20 kHz, ±0.05dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at rated maximum output drive
S/N	>90dB at rated maximum output drive
Crosstalk	>65dB @ 20 kHz, >80dB @ 1 kHz or below 60 Hz
Stereo channel separation	>80dB @ 20 Hz to 20 kHz
CMRR	>75dB @ 20 Hz to 20 kHz
Audio input	
Number/signal type	6 stereo, balanced/unbalanced on 6 3.5 mm captive screw connectors, 5 pole
Impedance	50 kohms unbalanced, 25 kohms balanced, DC coupled
Maximum level	+15dBu, (balanced or unbalanced) at stated %THD+N
Input gain adjustment	–19dB to +9dB, adjustable per input
Audio output	
Number/signal type	2 stereo, balanced/unbalanced on 2 3.5 mm captive screw connectors, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1dB channel to channel
Maximum level (Hi-Z)	> +21dBu, balanced or unbalanced at stated %THD+N
Maximum level (600 ohm)	> +15dBm, balanced or unbalanced at stated %THD+N
Note: 0dBu = 0.775 volts (RMS)	
Control/remote — switcher	
Serial control port	RS-232, 9-pin female D connector
Contact closure	9-pin female D connector
General	
Power	100VAC to 240VAC, 50/60 Hz, 10 watts, internal, auto-switchable
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 9.5" D 4.5 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors and knobs)
Shipping weight	6 lbs (2.7 kg)
Approvals	UL, CUL, CE, FCC Class A

Parrt Numbers	
SW 6 SV A MX	60-358-01
SW 6 SVA MX AUTO	60-358-02

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